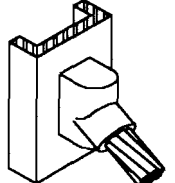
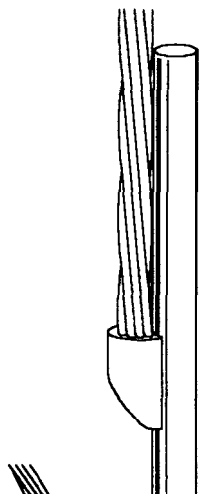
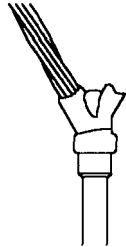
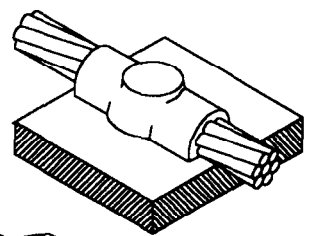
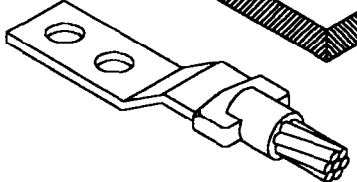
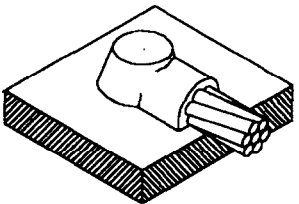
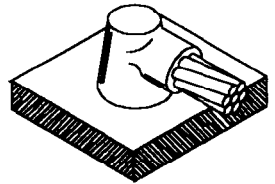
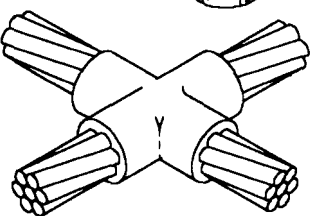
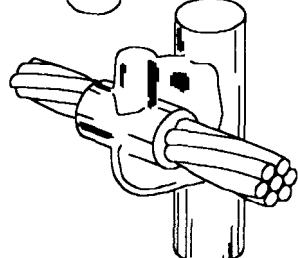
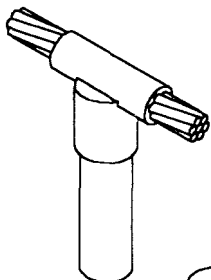
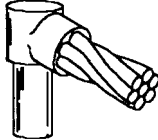
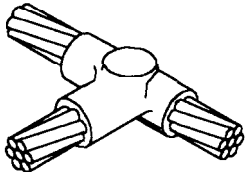
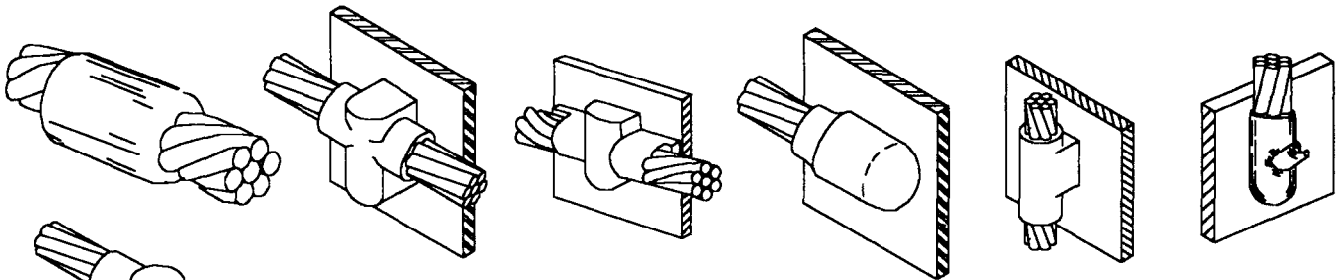
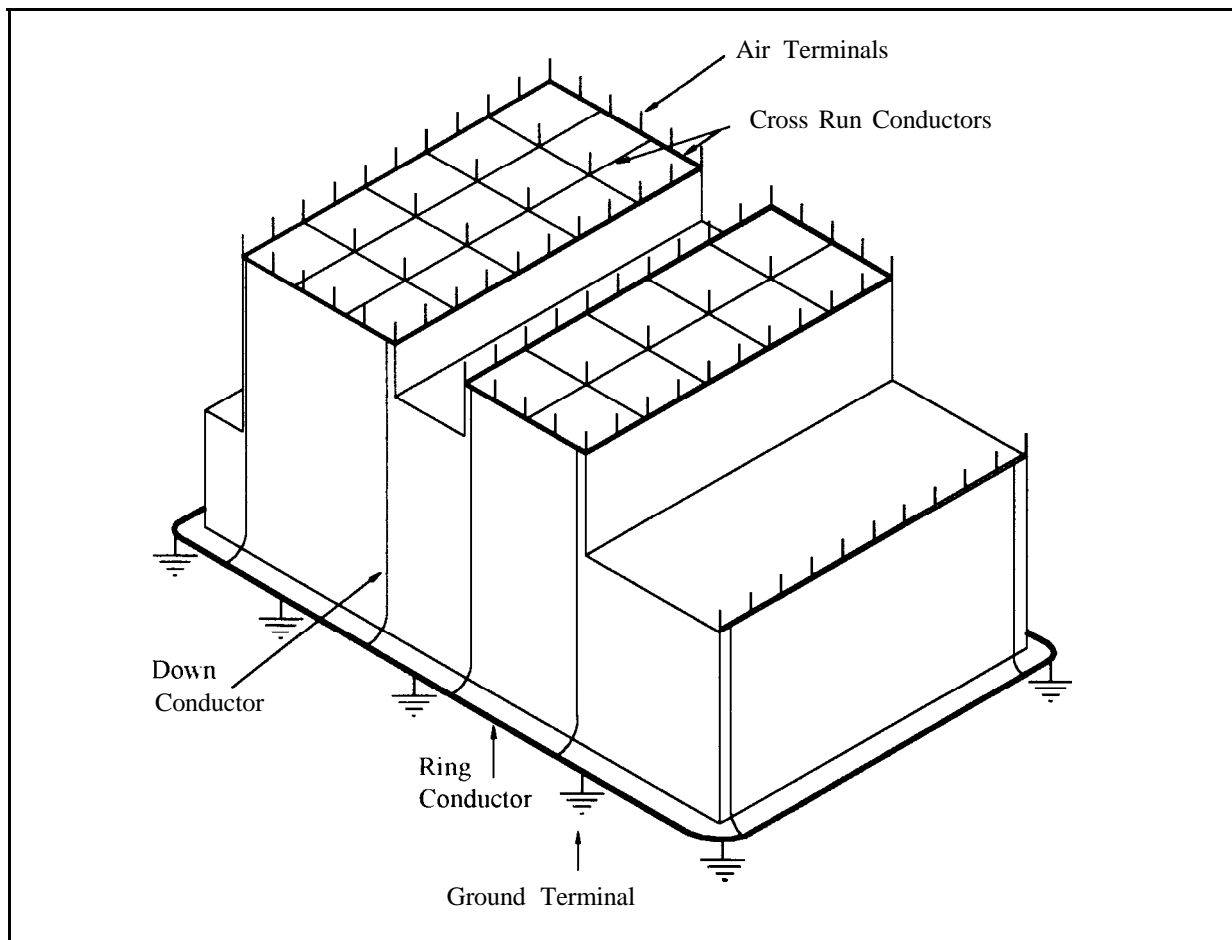


## LIGHTNING PROTECTION CONNECTIONS



## TABLE OF CONTENTS

|                        |    |
|------------------------|----|
| Connection Types ..... | 4  |
| Type SS .....          | 5  |
| Type TA .....          | 5  |
| Type XA .....          | 6  |
| Type GR .....          | 7  |
| Type GN .....          | 7  |
| Type GV .....          | 8  |
| Type GT .....          | 8  |
| Type GY .....          | 9  |
| Type HA .....          | 10 |
| Type HC .....          | 10 |
| Type HS .....          | 10 |
| Type HT .....          | 10 |
| Type VS .....          | 11 |
| Type VV .....          | 11 |
| Type VN .....          | 11 |
| Type VG .....          | 12 |
| Type VT .....          | 12 |
| Type VF .....          | 12 |
| Type LA .....          | 13 |
| Type RA .....          | 13 |
| Type RB .....          | 13 |



### BENEFITS OF CADWELD® CONNECTIONS FOR LIGHTNING PROTECTION CABLE

- Connections which have the current carrying (fusing) capacity equal to that of the conductor.
- Connections that are permanent - cannot loosen or corrode.
- Labor costs which are substantially reduced.
- Connections which are made with inexpensive, light-weight equipment - saving time on the jobsite.
- No special skills required.
- No external power or heat required.
- Connections which can be checked for quality by visual inspection.
- Molds which can be field adapted for smaller cables by the use of shim or sleeves.

For Tools and Accessories, see CADWELD® GROUNDING CATALOG A1A.

# GROUNDING CONNECTIONS FOR LIGHTNING PROTECTION CABLE

Twenty-one different CADWELD connection types are covered in this catalog. Mold number, weld metal sizes, and price keys are furnished for all cable and ground rod sizes used by the industry. For anything not listed, contact the factory.

To select required mold and weld metal size, first determine the cable code from the chart, then find the matching cable code in the chart accompanying the type of connection you want to make.

For convenient presentation, cables are coded by manufacturer according to this chart:

| CABLE CODE | THOMPSON      | ROBBINS | INDEPENDENT       | AC              | HEARY               | HARGER      |
|------------|---------------|---------|-------------------|-----------------|---------------------|-------------|
| A          | 14            | 1 IA-IO | 22                | c-150           | HB6C                | 14          |
| B          | 509           | 11      | --                | C-152           | HB4C                | 10          |
| C          | 29X, 32       | 1       | 32S               | c-120,121,122   | HB29-17C, HB32-17C  | 29,30,32,33 |
| D          | 325, 505, 28R | 601,603 | 20, 500           | C-125, 126, 128 | HB24-14C, HB28-14C  | 25, 35, 28  |
| E          | --            | 604     | 40, GI            | --              | --                  | --          |
| F          | 36S, 506      | 602     | 36S               | C-123, 127      | HB36-17C, HB28B-13C | 20, 36      |
| G          | --            | --      | 501, 21, 44S, 40s | C-124           | HB40-17C            | 40          |
| H          | --            | --      | 502               | --              | --                  | --          |
| J          | --            | --      | 501B              | --              | --                  | --          |
| K          | 507           | --      | G3                | --              | --                  | 38          |
| L          | --            | --      | 502A              | --              | --                  | --          |
| Q          | --            | *605    | --                | *c-137          | *HB122-4/0          | *54, *64    |

\*4/0 Concentric Cable

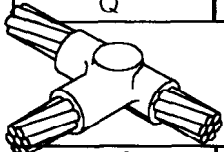
MOST LIGHTNING CABLES ARE AN OPEN WEAVE AND/OR ROPE-LAY CONSTRUCTION. TO MINIMIZE LEAKAGE WHEN MAKING CADWELD® CONNECTIONS ON THESE CABLES, THE USE OF CADWELD MOLD SEALING MATERIAL (T317) IS RECOMMENDED.



## Type SS

Splice of horizontal cables

| CABLE CODE | MOLD NUMBER | PRICE KEY | WELD METAL SIZE |
|------------|-------------|-----------|-----------------|
| A          | SSC-8A      | C         | 25              |
| B          | SSC-8B      | C         | 45              |
| C          | SSC-8C      | C         | 65              |
| D          | SSC-8D      | C         | 90              |
| E          | SSC-8E      | C         | 90              |
| F          | ssc-8F      | C         | 90              |
| G          | SSC-8G      | C         | 115             |
| H          | SSC-8H      | C         | 115             |
| J          | ssc-8J      | C         | 115             |
| K          | SSC-8K      | C         | 115             |
| L          | SSC-8L      | C         | 150             |
| Q          | SSC-2Q      | C         | 90              |



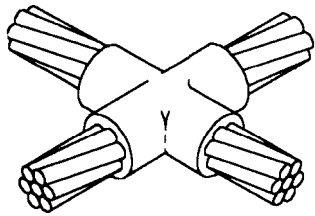
## Type TA

Tee of horizontal run and tap cables

| CABLE CODE |     | MOLD NUMBER | PRICE KEY | WELD METAL SIZE |
|------------|-----|-------------|-----------|-----------------|
| RUN        | TAP |             |           |                 |
| A          | A   | TAC-8A8A    | C         | 45              |
| B          | A   | TAC-8B8A    | C         | 45              |
|            | B   | TAC-8B8B    | C         | 65              |
| C          | A   | TAC-8C8A    | C         | 65              |
|            | B   | TAC-8C8B    | C         | 90              |
|            | C   | TAC-8C8C    | C         | 115             |
| D          | A   | TAC-8D8A    | C         | 65              |
|            | B   | TAC-8D8B    | C         | 90              |
|            | C   | TAC-8D8C    | C         | 115             |
|            | D   | TAC-8D8D    | C         | 115             |
| E          | A   | TAC-8E8A    | C         | 90              |
|            | B   | TAC-8E8B    | C         | 90              |
|            | C   | TAC-8E8C    | C         | 115             |
|            | D   | TAC-8E8D    | C         | 150             |
|            | E   | TAC-8E8E    | C         | 150             |
| F          | A   | TAC-8F8A    | C         | 90              |
|            | B   | TAC-8F8B    | C         | 90              |
|            | C   | TAC-8F8C    | C         | 115             |
|            | D   | TAC-8F8D    | C         | 115             |
|            | E   | TAC-8F8E    | C         | 150             |
|            | F   | TAC-8F8F    | C         | 150             |
|            | Q   | TAC-8F2Q    | C         | 150             |
|            | G   | A           | TAC-8G8A  | C               |
| B          |     | TAC-8G8B    | C         | 90              |
| C          |     | TAC-8G8C    | C         | 115             |
| D          |     | TAC-8G8D    | C         | 115             |
| E          |     | TAC-8G8E    | C         | 150             |
| F          |     | TAC-8G8F    | C         | 150             |
| G          |     | TAC-8G8G    | C         | 150             |
| Q          |     | TAC-8G2Q    | C         | 150             |

## Type TA (continued)

| CABL RUN | CODE |   | MOLD NUMBER | PRICE KEY | WELD METAL SIZE |     |
|----------|------|---|-------------|-----------|-----------------|-----|
|          | TAP  |   |             |           |                 |     |
| H        | A    |   | TAC-8H8A    | C         | 90              |     |
|          | B    |   | TAC-8H8B    | C         | 90              |     |
|          | C    |   | TAC-8H8C    | C         | 115             |     |
|          | D    |   | TAC-8H8D    | C         | 115             |     |
|          | E    |   | TAC-8H8E    | C         | 150             |     |
|          | F    |   | TAC-8H8F    | C         | 150             |     |
|          | G    |   | TAC-8H8G    | C         | 150             |     |
|          | H    |   | TAC-8H8H    | C         | 150             |     |
|          | Q    |   | TAC-8H2Q    | C         | 150             |     |
| J        | A    |   | TAC-8J8A    | C         | 90              |     |
|          | B    |   | TAC-8J8B    | C         | 90              |     |
|          | C    |   | TAC-8J8C    | C         | 115             |     |
|          | D    |   | TAC-8J8D    | C         | 150             |     |
|          | E    |   | TAC-8J8E    | C         | 150             |     |
|          | F    |   | TAC-8J8F    | C         | 150             |     |
|          | G    |   | TAC-8J8G    | C         | 150             |     |
|          | H    |   | TAC-8J8H    | C         | 150             |     |
|          | J    |   | TAC-8J8J    | C         | 200             |     |
|          | Q    |   | TAC-8J2Q    | C         | 150             |     |
|          | K    | A |             | TAC-8K8A  | C               | 115 |
| B        |      |   | TAC-8K8B    | C         | 115             |     |
| C        |      |   | TAC-8K8C    | C         | 150             |     |
| D        |      |   | TAC-8K8D    | C         | 150             |     |
| E        |      |   | TAC-8K8E    | C         | 150             |     |
| F        |      |   | TAC-8K8F    | C         | 150             |     |
| G        |      |   | TAC-8K8G    | C         | 150             |     |
| H        |      |   | TAC-8K8H    | C         | 200             |     |
| J        |      |   | TAC-8K8J    | C         | 200             |     |
| K        |      |   | TAC-8K8K    | C         | 200             |     |
| Q        |      |   | TAC-8K2Q    | C         | 150             |     |
| L        |      | A |             | TAC-8L8A  | C               | 115 |
|          |      | B |             | TAC-8L8B  | C               | 115 |
|          | C    |   | TAC-8L8C    | C         | 150             |     |
|          | D    |   | TAC-8L8D    | C         | 150             |     |
|          | E    |   | TAC-8L8E    | C         | 150             |     |
|          | F    |   | TAC-8L8F    | C         | 200             |     |
|          | G    |   | TAC-8L8G    | C         | 200             |     |
|          | H    |   | TAC-8L8H    | C         | 200             |     |
|          | J    |   | TAC-8L8J    | C         | 200             |     |
|          | K    |   | TAC-8L8K    | C         | 200             |     |
|          | L    |   | TAC-8L8L    | C         | 250             |     |
|          | Q    |   | TAC-8L2Q    | C         | 200             |     |
|          | Q    | A |             | TAC-2Q8A  | C               | 90  |
| B        |      |   | TAC-2Q8B    | C         | 90              |     |
| C        |      |   | TAC-2Q8C    | C         | 115             |     |
| D        |      |   | TAC-2Q8D    | C         | 115             |     |
| E        |      |   | TAC-2Q8E    | C         | 150             |     |
| F        |      |   | TAC-2Q8F    | C         | 150             |     |
| Q        |      |   | TAC-2Q2Q    | C         | 150             |     |

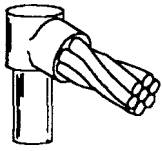


Cross of horizontal cables. tap cable cut.

## Type XA

| CABLE CODE |     | MOLD NUMBER | PRICE KEY | WELD METAL SIZE |
|------------|-----|-------------|-----------|-----------------|
| RUN        | TAP |             |           |                 |
| A          | A   | XAC-8A8A    | C         | 65              |
| B          | A   | XAC-8B8A    | C         | 65              |
|            | B   | XAC-8B8B    | C         | 90              |
| C          | A   | XAC-8C8A    | C         | 90              |
|            | B   | XAC-8C8B    | C         | 115             |
|            | C   | XAC-8C8C    | C         | 150             |
| D          | A   | XAC-8D8A    | C         | 90              |
|            | B   | XAC-8D8B    | C         | 115             |
|            | C   | XAC-8D8C    | C         | 150             |
|            | D   | XAC-8D8D    | C         | 150             |
| E          | A   | XAC-8E8A    | C         | 115             |
|            | B   | XAC-8E8B    | C         | 115             |
|            | C   | XAC-8E8C    | C         | 150             |
|            | D   | XAC-8E8D    | C         | 200             |
|            | E   | XAC-8E8E    | C         | 200             |
| F          | A   | XAC-8F8A    | C         | 115             |
|            | B   | XAC-8F8B    | C         | 115             |
|            | C   | XAC-8F8C    | C         | 150             |
|            | D   | XAC-8F8D    | C         | 150             |
|            | E   | XAC-8F8E    | C         | 200             |
|            | F   | XAC-8F8F    | C         | 200             |
|            | Q   | XAC-8F2Q    | C         | 200             |
| G          | A   | XAC-8G8A    | C         | 115             |
|            | B   | XAC-8G8B    | C         | 115             |
|            | C   | XAC-8G8C    | C         | 150             |
|            | D   | XAC-8G8D    | C         | 150             |
|            | E   | XAC-8G8E    | C         | 200             |
|            | F   | XAC-8G8F    | C         | 200             |
|            | Q   | XAC-8G2Q    | C         | 200             |
| H          | A   | XAC-8H8A    | C         | 115             |
|            | B   | XAC-8H8B    | C         | 115             |
|            | C   | XAC-8H8C    | C         | 150             |
|            | D   | XAC-8H8D    | C         | 150             |
|            | E   | XAC-8H8E    | C         | 200             |
|            | F   | XAC-8H8F    | C         | 200             |
|            | G   | XAC-8H8G    | C         | 200             |
|            | H   | XAC-8H8H    | C         | 200             |
|            | Q   | XAC-8H2Q    | C         | 200             |

| CABLE CODE |     | MOLD NUMBER | PRICE KEY | WELD METAL SIZE |
|------------|-----|-------------|-----------|-----------------|
| RUN        | TAP |             |           |                 |
| J          | A   | XAC-8J8A    | C         | 115             |
|            | B   | XAC-8J8B    | C         | 115             |
|            | C   | XAC-8J8C    | C         | 150             |
|            | D   | XAC-8J8D    | C         | 200             |
|            | E   | XAC-8J8E    | C         | 200             |
|            | F   | XAC-8J8F    | C         | 200             |
|            | G   | XAC-8J8G    | C         | 200             |
|            | H   | XAC-8J8H    | C         | 200             |
|            | J   | XAC-8J8J    | C         | 250             |
|            | Q   | XAC-8J2Q    | C         | 200             |
| K          | A   | XAC-8K8A    | C         | 150             |
|            | B   | XAC-8K8B    | C         | 150             |
|            | C   | XAC-8K8C    | C         | 200             |
|            | D   | XAC-8K8D    | C         | 200             |
|            | E   | XAC-8K8E    | C         | 200             |
|            | F   | XAC-8K8F    | C         | 200             |
|            | G   | XAC-8K8G    | C         | 200             |
|            | H   | XAC-8K8H    | C         | 250             |
|            | J   | XAC-8K8J    | C         | 250             |
|            | Q   | XAC-8K2Q    | C         | 200             |
| L          | A   | XAC-8L8A    | C         | 150             |
|            | B   | XAC-8L8B    | C         | 150             |
|            | C   | XAC-8L8C    | C         | 200             |
|            | D   | XAC-8L8D    | C         | 200             |
|            | E   | XAC-8L8E    | C         | 200             |
|            | F   | XAC-8L8F    | C         | 250             |
|            | G   | XAC-8L8G    | C         | 250             |
|            | H   | XAC-8L8H    | C         | 250             |
|            | J   | XAC-8L8J    | C         | 250             |
|            | Q   | XAD-8L8L    | D         | 2-150           |
| Q          | A   | XAC-2Q8A    | C         | 115             |
|            | B   | XAC-2Q8B    | C         | 115             |
|            | C   | XAC-2Q8C    | C         | 150             |
|            | D   | XAC-2Q8D    | C         | 150             |
|            | E   | XAC-2Q8E    | C         | 200             |
|            | F   | XAC-2Q8F    | C         | 200             |
|            | Q   | XAC-2Q2Q    | C         | 200             |



## Type G R

Cable tap to top of ground rod

## Type G N

Vertical Cable, Tap up, streamlined for driving



| GROUND ROD SIZE | CABLE CODE | MOLD NUMBER | PRICE KEY | WELD METAL SIZE |
|-----------------|------------|-------------|-----------|-----------------|
| 1/2"            | A          | GRC-148A    | C         | 90              |
|                 | B          | GRC-148B    | C         | 90              |
|                 | C          | GRC-148C    | C         | 90              |
|                 | D          | GRC-148D    | C         | 115             |
|                 | E          | GRC-148E    | C         | 115             |
|                 | F          | GRC-148F    | C         | 115             |
|                 | G          | GRC-148G    | C         | 115             |
|                 | H          | GRC-148H    | C         | 115             |
|                 | J          | GRC-148J    | C         | 115             |
|                 | K          | GRC-148K    | C         | 115             |
| L               | GRC-148L   | C           | 150       |                 |
| Q               | GRC-142Q   | C           | 90        |                 |
| 5/8"            | A          | GRC-168A    | C         | 90              |
|                 | B          | GRC-168B    | C         | 90              |
|                 | C          | GRC-168C    | C         | 115             |
|                 | D          | GRC-168D    | C         | 115             |
|                 | E          | GRC-168E    | C         | 115             |
|                 | F          | GRC-168F    | C         | 115             |
|                 | G          | GRC-168G    | C         | 115             |
|                 | H          | GRC-168H    | C         | 115             |
|                 | J          | GRC-168J    | C         | 115             |
|                 | K          | GRC-168K    | C         | 115             |
| L               | GRC-168L   | C           | 150       |                 |
| Q               | GRC-162Q   | C           | 90        |                 |
| 3/4"            | A          | GRC-188A    | C         | 90              |
|                 | B          | GRC-188B    | C         | 90              |
|                 | C          | GRC-188C    | C         | 115             |
|                 | D          | GRC-188D    | C         | 115             |
|                 | E          | GRC-188E    | C         | 115             |
|                 | F          | GRC-188F    | C         | 115             |
|                 | G          | GRC-188G    | C         | 115             |
|                 | H          | GRC-188H    | C         | 115             |
|                 | J          | GRC-188J    | C         | 115             |
|                 | K          | GRC-188K    | C         | 115             |
| L               | GRC-188L   | C           | 150       |                 |
| Q               | GRC-182Q   | C           | 90        |                 |
| 1"              | A          | GRC-228A    | C         | 150             |
|                 | B          | GRC-228B    | C         | 150             |
|                 | C          | GRC-228C    | C         | 150             |
|                 | D          | GRC-228D    | C         | 150             |
|                 | E          | GRC-228E    | C         | 200             |
|                 | F          | GRC-228F    | C         | 200             |
|                 | G          | GRC-228G    | C         | 200             |
|                 | H          | GRC-228H    | C         | 200             |
|                 | J          | GRC-228J    | C         | 200             |
|                 | K          | GRC-228K    | C         | 200             |
| L               | GRC-228L   | C           | 250       |                 |
| Q               | GRC-222Q   | C           | 150       |                 |

| GROUND ROD SIZE | CABLE CODE | MOLD NUMBER | PRICE KEY | WELD METAL SIZE |
|-----------------|------------|-------------|-----------|-----------------|
| 1/2"            | A          | GNR-148A    | R         | 90              |
|                 | B          | GNR-148B    | R         | 90              |
|                 | C          | GNR-148C    | R         | 115             |
|                 | D          | GNR-148D    | R         | 150             |
|                 | E          | GNR-148E    | R         | 150             |
|                 | F          | GNR-148F    | R         | 150             |
|                 | G          | GNR-148G    | R         | 150             |
|                 | H          | GNR-148H    | R         | 150             |
|                 | J          | GNR-148J    | R         | 200             |
|                 | K          | GNR-148K    | R         | 200             |
| L               | GNR-148L   | R           | 250       |                 |
| Q               | GNR-142Q   | R           | 150       |                 |
| 5/8"            | A          | GNR-168A    | R         | 90              |
|                 | B          | GNR-168B    | R         | 90              |
|                 | C          | GNR-168C    | R         | 115             |
|                 | D          | GNR-168D    | R         | 150             |
|                 | E          | GNR-168E    | R         | 150             |
|                 | F          | GNR-168F    | R         | 150             |
|                 | G          | GNR-168G    | R         | 150             |
|                 | H          | GNR-168H    | R         | 150             |
|                 | J          | GNR-168J    | R         | 200             |
|                 | K          | GNR-168K    | R         | 200             |
| L               | GNR-168L   | R           | 250       |                 |
| Q               | GNR-162Q   | R           | 150       |                 |
| 3/4"            | A          | GNR-188A    | R         | 115             |
|                 | B          | GNR-188B    | R         | 115             |
|                 | C          | GNR-188C    | R         | 150             |
|                 | D          | GNR-188D    | R         | 200             |
|                 | E          | GNR-188E    | R         | 200             |
|                 | F          | GNR-188F    | R         | 200             |
|                 | G          | GNR-188G    | R         | 200             |
|                 | H          | GNR-188H    | R         | 200             |
|                 | J          | GNR-188J    | R         | 200             |
|                 | K          | GNR-188K    | R         | 200             |
| L               | GNR-188L   | R           | 250       |                 |
| Q               | GNR-182Q   | R           | 150       |                 |
| 1"              | A          | GNR-228A    | R         | 150             |
|                 | B          | GNR-228B    | R         | 150             |
|                 | C          | GNR-228C    | R         | 200             |
|                 | D          | GNR-228D    | R         | 200             |
|                 | E          | GNR-228E    | R         | 200             |
|                 | F          | GNR-228F    | R         | 250             |
|                 | G          | GNR-228G    | R         | 250             |
|                 | H          | GNR-228H    | R         | 250             |
|                 | J          | GNR-228J    | R         | 250             |
|                 | K          | GNR-228K    | R         | 250             |
| L               | GNR-228L   | R           | 2-150     |                 |
| Q               | GNR-222Q   | R           | 200       |                 |

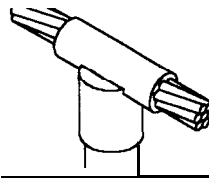
SEE PAGE 9

## Type GV



Splice/Vertical - Cable up. 30 off vertical

## Type GT



Through cable to top of ground rod

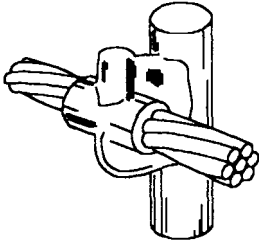
| ROUND ROD SIZE | CABLE CODE | MOLD NUMBER | PRICE KEY  | WELD METAL SIZE |
|----------------|------------|-------------|------------|-----------------|
| 1/2"           | A          | GVR- 148A   | R          | 90              |
|                | B          | GVR-148B    | R          | 90              |
|                | C          | GVR-148C    | R          | <b>115</b>      |
|                | D          | GVR-148D    | R          | <b>150</b>      |
|                | E          | GVR-148E    | R          | <b>150</b>      |
|                | F          | GVR-148F    | R          | <b>150</b>      |
|                | G          | GVR-148G    | R          | <b>150</b>      |
|                | H          | GVR-148H    | R          | <b>150</b>      |
|                | J          | GVR-148J    | R          | <b>200</b>      |
|                | K          | GVR-148K    | R          | <b>200</b>      |
|                | L          | GVR-148L    | R          | <b>250</b>      |
| Q              | GVR-142Q   | R           | <b>150</b> |                 |
| 5/8"           | A          | GVR- 168A   | R          | 90              |
|                | B          | GVR-168B    | R          | 90              |
|                | C          | GVR- 168C   | R          | <b>115</b>      |
|                | D          | GVR-168D    | R          | <b>150</b>      |
|                | E          | GVR-168E    | R          | <b>150</b>      |
|                | F          | GVR-168F    | R          | <b>150</b>      |
|                | G          | GVR- 168G   | R          | <b>150</b>      |
|                | H          | GVR- 168H   | R          | <b>150</b>      |
|                | J          | GVR- 168J   | R          | <b>200</b>      |
|                | K          | GVR-168K    | R          | <b>200</b>      |
|                | L          | GVR-168L    | R          | <b>250</b>      |
| Q              | GVR-162Q   | R           | <b>150</b> |                 |
| 3/4"           | A          | GVR- 188A   | R          | <b>115</b>      |
|                | B          | GVR-188B    | R          | <b>115</b>      |
|                | C          | GVR-188C    | R          | <b>150</b>      |
|                | D          | GVR-188D    | R          | <b>200</b>      |
|                | E          | GVR-188E    | R          | <b>200</b>      |
|                | F          | GVR-188F    | R          | <b>200</b>      |
|                | G          | GVR-188G    | R          | <b>200</b>      |
|                | H          | GVR-188H    | R          | <b>200</b>      |
|                | J          | GVR-188J    | R          | <b>200</b>      |
|                | K          | GVR-188K    | R          | <b>200</b>      |
|                | L          | GVR-188L    | R          | <b>250</b>      |
| Q              | GVR-182Q   | R           | <b>150</b> |                 |
| 1"             | A          | GVR-228A    | R          | <b>150</b>      |
|                | B          | GVR-228B    | R          | <b>150</b>      |
|                | C          | GVR-228C    | R          | <b>200</b>      |
|                | D          | GVR-228D    | R          | <b>200</b>      |
|                | E          | GVR-228E    | R          | <b>200</b>      |
|                | F          | GVR-228F    | R          | <b>250</b>      |
|                | G          | GVR-228G    | R          | <b>250</b>      |
|                | H          | GVR-228H    | R          | <b>250</b>      |
|                | J          | GVR-228J    | R          | <b>250</b>      |
|                | K          | GVR-228K    | R          | <b>250</b>      |
|                | L          | GVR-228L    | R          | <b>2- 150</b>   |
| Q              | GVR-222Q   | R           | <b>200</b> |                 |

| ROUND ROD SIZE | CABLE CODE | MOLD NUMBER | PRICE KEY  | WELD METAL SIZE |
|----------------|------------|-------------|------------|-----------------|
| 1/2"           | A          | GTC-148A    | C          | <b>90</b>       |
|                | B          | GTC-148B    | C          | <b>90</b>       |
|                | C          | GTC-148C    | C          | <b>115</b>      |
|                | D          | GTC-148D    | C          | <b>115</b>      |
|                | E          | GTC-148E    | C          | <b>115</b>      |
|                | F          | GTC-148F    | C          | <b>115</b>      |
|                | G          | GTC-148G    | C          | <b>150</b>      |
|                | H          | GTC-148H    | C          | <b>150</b>      |
|                | J          | GTC- 148J   | C          | <b>150</b>      |
|                | K          | GTC- 148K   | C          | <b>150</b>      |
|                | L          | GTC-148L    | C          | <b>200</b>      |
| Q              | GTC-142Q   | C           | <b>115</b> |                 |
| 5/8"           | A          | GTC- 168A   | C          | <b>90</b>       |
|                | B          | GTC-168B    | C          | <b>115</b>      |
|                | C          | GTC-168C    | C          | <b>150</b>      |
|                | D          | GTC-168D    | C          | <b>150</b>      |
|                | E          | GTC- 168E   | C          | <b>150</b>      |
|                | F          | GTC- 168F   | C          | <b>150</b>      |
|                | G          | GTC- 168G   | C          | <b>200</b>      |
|                | H          | GTC- 168H   | C          | <b>200</b>      |
|                | J          | GTC- 168J   | C          | <b>200</b>      |
|                | K          | GTC- 168K   | C          | <b>200</b>      |
|                | L          | GTC-168L    | C          | <b>250</b>      |
| Q              | GTC-162Q   | C           | <b>115</b> |                 |
| 3/4"           | A          | GTC-188A    | C          | <b>90</b>       |
|                | B          | GTC- 188B   | C          | <b>115</b>      |
|                | C          | GTC- 188C   | C          | <b>150</b>      |
|                | D          | GTC-188D    | C          | <b>150</b>      |
|                | E          | GTC-188E    | C          | <b>150</b>      |
|                | F          | GTC-188F    | C          | <b>150</b>      |
|                | G          | GTC- 188G   | C          | <b>200</b>      |
|                | H          | GTC-188H    | C          | <b>200</b>      |
|                | J          | GTC- 188J   | C          | <b>200</b>      |
|                | K          | GTC- 188K   | C          | <b>200</b>      |
|                | L          | GTC- 188L   | C          | <b>250</b>      |
| Q              | GTC-182Q   | C           | <b>115</b> |                 |
| 1"             | A          | GTC-228A    | C          | <b>150</b>      |
|                | B          | GTC-228B    | C          | <b>150</b>      |
|                | C          | GTC-228C    | C          | <b>150</b>      |
|                | D          | GTC-228D    | C          | <b>200</b>      |
|                | E          | GTC-228E    | C          | <b>200</b>      |
|                | F          | GTC-228F    | C          | <b>250</b>      |
|                | G          | GTC-228G    | C          | <b>250</b>      |
|                | H          | GTC-228H    | C          | <b>250</b>      |
|                | J          | GTC-228J    | C          | <b>250</b>      |
|                | K          | GTC-228K    | C          | <b>250</b>      |
|                | L          | GTC-228L    | C          | <b>2- 150</b>   |
| Q              | GTC-222Q   | C           | <b>150</b> |                 |

SEE PAGE 9



# Type GY



Through cable to side of ground rod

| GROUND ROD SIZE | CABLE CODE | MOLD NUMBER | PRICE KEY  | WELD METAL SIZE |
|-----------------|------------|-------------|------------|-----------------|
| 1/2"            | A          | GYE-148A    | E          | 90              |
|                 | B          | GYE-148B    | E          | <b>115</b>      |
|                 | C          | GYE-148C    | E          | <b>150</b>      |
|                 | D          | GYE-148D    | E          | <b>150</b>      |
|                 | E          | GYE-148E    | E          | <b>150</b>      |
|                 | F          | GYE-148F    | E          | <b>150</b>      |
|                 | G          | GYE-148G    | E          | <b>200</b>      |
|                 | H          | GYE-148H    | E          | <b>200</b>      |
|                 | J          | GYE-148J    | E          | <b>200</b>      |
|                 | K          | GYE-148K    | E          | <b>200</b>      |
|                 | L          | GYE-148L    | E          | <b>250</b>      |
| Q               | GYE-142Q   | E           | <b>150</b> |                 |
| 5/8"            | A          | GYE-168A    | E          | 90              |
|                 | B          | GYE-168B    | E          | <b>115</b>      |
|                 | C          | GYE-168C    | E          | <b>150</b>      |
|                 | D          | GYE-168D    | E          | <b>150</b>      |
|                 | E          | GYE-168E    | E          | <b>150</b>      |
|                 | F          | GYE-168F    | E          | <b>150</b>      |
|                 | G          | GYE-168G    | E          | <b>200</b>      |
|                 | H          | GYE-168H    | E          | <b>200</b>      |
|                 | J          | GYE-168J    | E          | <b>200</b>      |
|                 | K          | GYE-168K    | E          | <b>200</b>      |
|                 | L          | GYE-168L    | E          | <b>250</b>      |
| Q               | GYE-162Q   | E           | <b>150</b> |                 |
| 3/4"            | A          | GYE-188A    | E          | 90              |
|                 | B          | GYE-188B    | E          | <b>115</b>      |
|                 | C          | GYE-188C    | E          | 150             |
|                 | D          | GYE-188D    | E          | <b>150</b>      |
|                 | E          | GYE-188E    | E          | <b>150</b>      |
|                 | F          | GYE-188F    | E          | <b>150</b>      |
|                 | G          | GYE-188G    | E          | <b>200</b>      |
|                 | H          | GYE-188H    | E          | <b>200</b>      |
|                 | J          | GYE-188J    | E          | <b>200</b>      |
|                 | K          | GYE-188K    | E          | <b>200</b>      |
|                 | L          | GYE-188L    | E          | <b>250</b>      |
| Q               | GYE-182Q   | E           | <b>150</b> |                 |

| GROUND ROD SIZE | CABLE CODE | MOLD NUMBER | PRICE KEY  | WELD METAL SIZE |
|-----------------|------------|-------------|------------|-----------------|
| 1"              | A          | GYE-228A    | E          | 90              |
|                 | B          | GYE-228B    | E          | <b>115</b>      |
|                 | C          | GYE-228C    | E          | <b>150</b>      |
|                 | D          | GYE-228D    | E          | <b>150</b>      |
|                 | E          | GYE-228E    | E          | <b>150</b>      |
|                 | F          | GYE-228F    | E          | <b>150</b>      |
|                 | G          | GYE-228G    | E          | <b>200</b>      |
|                 | H          | GYE-228H    | E          | <b>200</b>      |
|                 | J          | GYE-228J    | E          | <b>200</b>      |
|                 | K          | GYE-228K    | E          | <b>200</b>      |
|                 | L          | GYE-228L    | E          | <b>250</b>      |
| Q               | GYE-222Q   | E           | <b>150</b> |                 |

FOR GR, GN, GV, GT & GY CONNECTIONS:

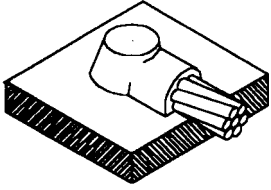
Mold numbers listed are for copper clad ground rods, either plain (except 1/2") or threaded ends.

For 1/2" plain end copper clad rod or for steel rods (stainless, stainless clad, galvanized, etc.), change the mold part number as follows:

|   |
|---|
| 1/2" plain end copper clad rod - change "14" to "15"<br><b>(eg. GYC-158C)</b> |
| 1/2" steel rod - no change required   |
| 5/8" steel rod - change "16" to "31" (eg. GYC-318C)                           |
| 3/4" steel rod - change "18" to "33" (eg. GYC-338D)                           |
| 1" steel rod - change "22" to "37" (eg. GYC-378F)                             |

Weld Metal Sizes do not change.

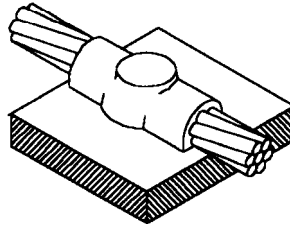
## Type HA



Horizontal cable tap to horizontal steel surface or pipe. Cable on surface.

| CABLE CODE | MOLD NUMBER | PRICE KEY | WELD METAL SIZE |
|------------|-------------|-----------|-----------------|
| A          | HAA-8A      | A         | <b>45</b>       |
| B          | HAA-8B      | A         | <b>65</b>       |
| C          | HAC-8C      | C         | 90              |
| D          | HAC-8D      | C         | 115             |
| E          | HAC-8E      | C         | 115             |
| F          | HAC-8F      | C         | <b>115</b>      |
| G          | HAC-8G      | C         | <b>115</b>      |
| H          | HAC-8H      | C         | <b>115</b>      |
| J          | HAC-8J      | C         | <b>150</b>      |
| K          | HAC-8K      | C         | <b>200</b>      |
| L          | HAC-8L      | C         | <b>250</b>      |
| Q          | HAC-2Q      | C         | <b>115</b>      |

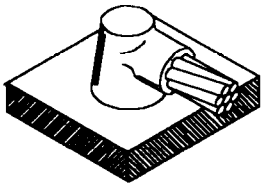
## Type HC



Through horizontal cable to horizontal steel surface or pipe. Cable on surface.

| CABLE CODE | MOLD NUMBER | PRICE KEY | WELD METAL SIZE |
|------------|-------------|-----------|-----------------|
| A          | HCA-8A      | A         | <b>65</b>       |
| B          | HCA-8B      | A         | <b>65</b>       |
| C          | HCC-8C      | C         | 90              |
| D          | HCC-8D      | C         | <b>150</b>      |
| E          | HCC-8E      | C         | <b>150</b>      |
| F          | HCC-8F      | C         | <b>150</b>      |
| G          | HCC-8G      | C         | <b>150</b>      |
| H          | HCC-8H      | C         | <b>150</b>      |
| J          | HCC-8J      | C         | <b>200</b>      |
| K          | HCC-8K      | C         | <b>200</b>      |
| L          | HCC-8L      | C         | <b>250</b>      |
| Q          | HCC-2Q      | C         | 150             |

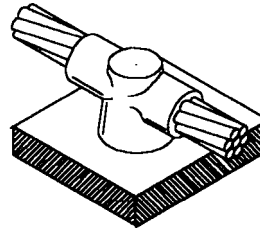
## Type HS



Horizontal cable tap to horizontal steel surface or pipe. Cable off surface.

| CABLE CODE | MOLD NUMBER | PRICE KEY | WELD METAL SIZE |
|------------|-------------|-----------|-----------------|
| D          | HSC-8D      | C         | <b>115</b>      |
| E          | HSC-8E      | C         | <b>115</b>      |
| F          | HSC-8F      | C         | <b>115</b>      |
| G          | HSC-8G      | C         | <b>115</b>      |
| H          | HSC-8H      | C         | <b>115</b>      |
| J          | HSC-8J      | C         | <b>150</b>      |
| K          | HSC-8K      | C         | <b>200</b>      |
| L          | HSC-8L      | C         | <b>250</b>      |
| Q          | HSC-2Q      | C         | <b>115</b>      |

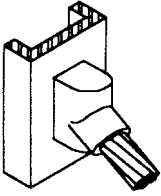
## Type HT



Through horizontal cable to horizontal steel surface or pipe. Cable off surface.

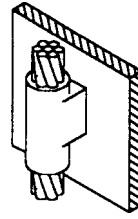
| CABLE CODE | MOLD NUMBER | PRICE KEY | WELD METAL SIZE |
|------------|-------------|-----------|-----------------|
| D          | HTC-8D      | C         | 150             |
| E          | HTC-8E      | C         | 150             |
| F          | HTC-8F      | C         | 150             |
| G          | HTC-8G      | C         | 150             |
| H          | HTC-8H      | C         | 150             |
| J          | HTC-8J      | C         | <b>200</b>      |
| K          | HTC-8K      | C         | <b>200</b>      |
| L          | HTC-8L      | C         | <b>250</b>      |
| Q          | HTC-2Q      | C         | <b>150</b>      |

## Type VS



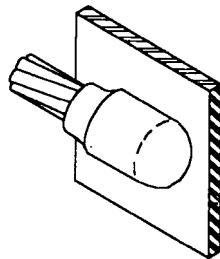
Cable tap down at 45° to vertical steel surface or side of horizontal or vertical pipe.

## Type VV



Through vertical cable to vertical steel surface or to the side of either horizontal or vertical pipe

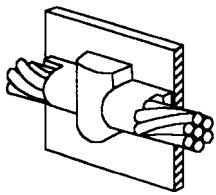
| CABLE CODE | MOLD NUMBER | PRICE KEY | WELD METAL SIZE | CABLE CODE | MOLD NUMBER | PRICE KEY | WELD METAL SIZE |
|------------|-------------|-----------|-----------------|------------|-------------|-----------|-----------------|
| A          | VSC-8A      | C         | 65              | A          | VVC-8A      | C         | 90              |
| B          | VSC-8B      | C         | 65              | B          | VVC-8B      | C         | 115             |
| C          | VSC-8C      | C         | 90              | C          | VVR-8C      | R         | 200             |
| D          | VSC-8D      | C         | 115             | D          | VVR-8D      | R         | 250             |
| E          | VSC-8E      | C         | 115             | E          | VVR-8E      | R         | 2-150           |
| F          | vsc-8F      | C         | 115             | F          | VVR-8F      | R         | 2-150           |
| G          | VSC-8G      | C         | 150             | G          | VVR-8G      | R         | 2-150           |
| H          | VSC-8H      | C         | 150             | H          | VVR-8H      | R         | 2-150           |
| J          | vsc-8J      | C         | 150             | J          | VVF-8J      | F         | 2-200           |
| K          | VSC-8K      | C         | 150             | K          | VVF-8K      | F         | 2-200           |
| L          | VSC-8L      | C         | 200             | L          | VVF-8L      | F         | 500             |
|            | VSC-2Q      | C         | 115             | Q          | VVR-2Q      | R         | 250             |



## Type VN

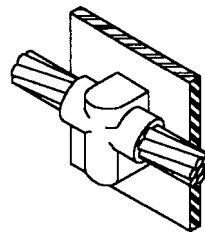
Horizontal cable tap to vertical steel surface or the side of horizontal pipe.

| CABLE CODE | MOLD NUMBER | PRICE KEY | WELD METAL SIZE |
|------------|-------------|-----------|-----------------|
| A          | VNC-8A      | C         | 45              |
| B          | VNC-8B      | C         | 65              |
| C          | VNC-8C      | C         | 65              |
| D          | VNC-8D      | C         | 90              |
| E          | VNC-8E      | C         | 115             |
| F          | VNC-8F      | C         | 115             |
| Q          | VNC-2Q      | C         | 115             |



## Type VG

Through cable to vertical *steel* surface or the side of horizontal pipe. Cable on surface.

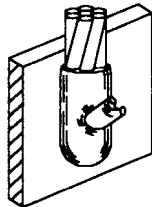


## Type VT

Through horizontal cable to vertical *steel* surface or vertical pipe. Cable off surface.

| CABLE CODE | MOLD NUMBER | PRICE KEY | WELD METAL SIZE |
|------------|-------------|-----------|-----------------|
| A          | VGC-8A      | C         | 65              |
| B          | VGC-8B      | C         | 90              |
| C          | VGC-8C      | C         | 115             |
| D          | VGC-8D      | C         | 150             |
| E          | VGC-8E      | C         | 150             |
| F          | VGC-8F      | C         | 150             |
| G          | VGC-8G      | C         | 150             |
| H          | VGC-8H      | C         | 150             |
| J          | VGC-8J      | C         | 200             |
| K          | VGC-8K      | C         | 200             |
| L          | VGC-8L      | C         | 250             |
|            | VGC-2Q      | C         | 150             |

| CABLE CODE | MOLD NUMBER | PRICE KEY | WELD METAL SIZE |
|------------|-------------|-----------|-----------------|
| A          | VTC-8A      | C         | 90              |
| B          | VTC-8B      | C         | 90              |
| C          | VTC-8C      | C         | 115             |
| D          | VTC-8D      | C         | 150             |
| E          | VTC-8E      | C         | 150             |
| F          | VTC-8F      | C         | 150             |
| G          | VTC-8G      | C         | 150             |
| H          | VTC-8H      | C         | 150             |
| J          | VTC-8J      | C         | 200             |
| K          | VTC-8K      | C         | 200             |
| L          | VTC-8L      | C         | 250             |
| Q          | VTC-2Q      | C         | 150             |

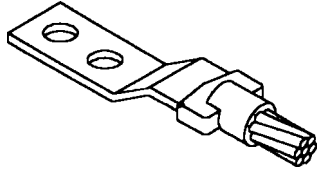


## Type VF

Cable tap up to vertical *steel* surface or pipe.

| CABLE CODE | MOLD NUMBER | PRICE KEY | WELD METAL SIZE |
|------------|-------------|-----------|-----------------|
| A          | VFC-8A      | C         | 90              |
| B          | VFC-8B      | C         | 90              |
| C          | VFC-8C      | C         | 115             |
| D          | VFR-8D      | R         | 150             |
| E          | VFR-8E      | R         | 150             |
| F          | VFR-8F      | R         | 150             |
| G          | VFR-8G      | R         | 150             |
| H          | VFR-8H      | R         | 150             |
| J          | VFR-8J      | R         | 200             |
| K          | VFR-8K      | R         | 200             |
| L          | VFR-8L      | R         | 250             |
| Q          | VFR-2Q      | R         | 150             |

## Type LA



Splice of horizontal cable to flat bus bar or lug.

| LUG SIZE | CABLE CODE | MOLD NUMBER | PRICE KEY | WELD METAL SIZE |
|----------|------------|-------------|-----------|-----------------|
| 1/8 x 1  | A          | LAC-8ACE    | C         | 65              |
|          | B          | LAC-8BCE    | C         | 65              |
|          | C          | LAC-8CCE    | C         | 90              |
|          | D          | LAC-8DCE    | C         | 90              |
|          | E          | LAC-8ECE    | C         | 90              |
|          | F          | LAC-8FCE    | C         | 90              |
|          | G          | LAC-8GCE    | C         | 90              |
|          | H          | LAC-8HCE    | C         | 90              |
| 3/16 x 1 | J          | LAC-8JDE    | C         | 115             |
|          | K          | LAC-8KDE    | C         | 115             |
|          | Q          | LAC-2QDE    | C         | 90              |
| 1/4 x 1  | J          | LAC-8JEE    | C         | 115             |
|          | K          | LAC-8KEE    | C         | 150             |
|          | L          | LAC-8LEE    | C         | 150             |
|          | Q          | LAC-2QEE    | C         | 90              |



## Type RA



## Type RB

Through cable to grounding receptacle.

Cable tap to grounding receptacle

| CABLE CODE | MOLD NUMBER | PRICE KEY | WELD METAL SIZE |
|------------|-------------|-----------|-----------------|
| A          | RAC-8A      | C         | 115             |
| B          | RAC-8B      | C         | 115             |
| C          | RAC-8C      | C         | 150             |
| D          | RAC-8D      | C         | 150             |
| E          | RAC-8E      | C         | 150             |
| F          | RAC-8F      | C         | 150             |
| G          | RAC-8G      | C         | 150             |
| H          | RAC-8H      | C         | 150             |
| J          | RAC-8J      | C         | 200             |
| K          | RAC-8K      | C         | 250             |
| L          | RAC-8L      | C         | 250             |
| Q          | RAC-2Q      | C         | 150             |

| CABLE CODE | MOLD NUMBER | PRICE KEY | WELD METAL SIZE |
|------------|-------------|-----------|-----------------|
| A          | RBC-8A      | C         | 115             |
| B          | RBC-8B      | C         | 115             |
| C          | RBC-8C      | C         | 150             |
| D          | RBC-8D      | C         | 200             |
| E          | RBC-8E      | C         | 200             |
| F          | RBC-8F      | C         | 200             |
| G          | RBC-8G      | C         | 200             |
| H          | RBC-8H      | C         | 200             |
| J          | RBC-8J      | C         | 250             |
| K          | RBC-8K      | C         | 2-150           |
| L          | RBC-8L      | C         | 2-150           |
| Q          | RBC-2Q      | C         | 200             |

SEE GENERAL CATALOG A-1A FOR RECEPTACLES  
ALSO AVAILABLE IN FACTORY ASSEMBLIES.



# AVAILABLE LITERATURE

## CALL OR WRITE FOR THE FOLLOWING CATALOGS AND APPLICATION BROCHURES

### A1A **GENERAL CATALOG**

Thirteen sections covering equipment required for making connections for cable, bus bar, rail, rebar, lugs, ground rods, steel and cast iron surfaces, grounding plates, receptacles and studs.

A1C Same as A1A, but a reduced field size for contractor tool boxes or pockets.

### E7E **EXOLON®**

A virtually smokeless form of CADWELD designed for use near sensitive equipment or indoors. Electric start.

### A4T **TELECOMMUNICATIONS GROUNDING**

Brochure which provides specifications and applications information for grounding of central offices, digital switches, towers, equipment huts, fiber optic repeater sites, computer rooms, etc.

### A4P **COMPUTER ROOM GROUNDING**

Brochure detailing signal reference grids, shielding, bonding and grounding for computer rooms and other digital facilities.

### A4Q **FENCE GROUNDING**

Brochure which explains the use of inexpensive cable to bond gate frames to gate posts. Also covers grounding connections to round and square posts.

### A4U **PERSONNEL SAFETY**

Brochure describing CADWELD methods to improve protection of personnel working on high voltage structures and equipment.

### A4G **SUBSTATION GROUNDING**

Brochure with sections on main grounding grids, equipotential mesh, foundation grounding and other applications.

### A4S **GROUND BARS**

Brochure that details typical ground bar assemblies to provide single point grounding of electronic equipment.

### A7J **GEM™ Ground Enhancement Material**

Brochure describing GEM Ground Enhancement Material used to lower resistance to earth.



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